

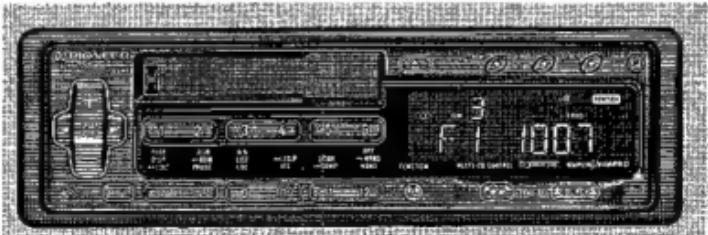
MULTI-CD CONTROL FM/AM TUNER DECK AMPLIFIER

OWNER'S MANUAL

Thank you for purchasing this PIONEER product. Before attempting operation, please read this manual.

Muchas gracias por la alta calidad de este producto PIONEER. Me encanta el sonido que me brinda este producto.

Digitized by srujanika@gmail.com



 **PIONEER**
The Art of Entertainment

KEWEP7250

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ENGLISH

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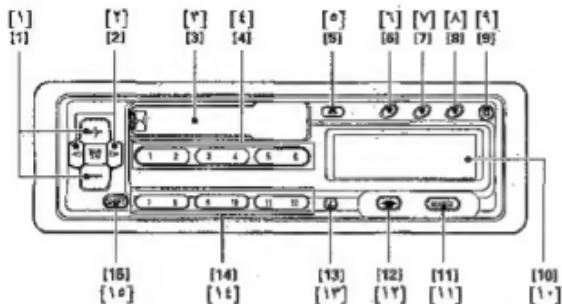


Fig 1
الشكل ١

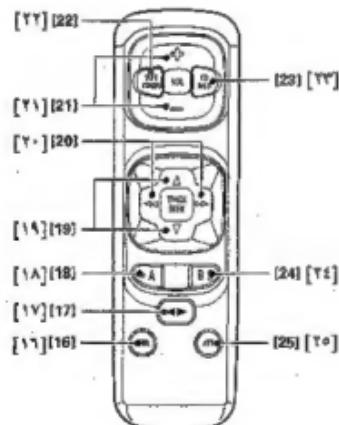


Fig 2
الشكل ٢

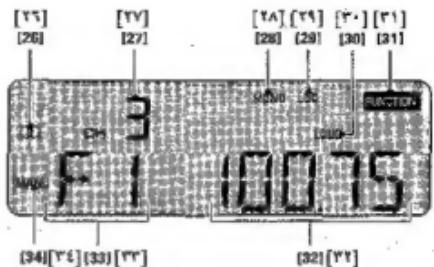


Fig 3
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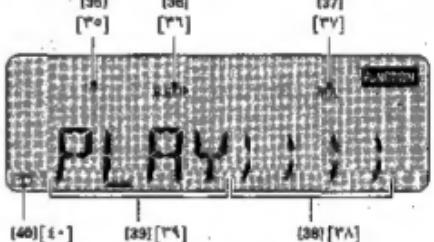


Fig 4
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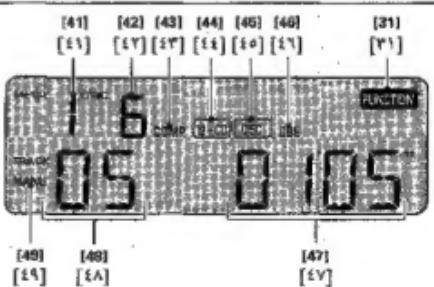


Fig 5
الشكل ٥

Precaution

- If the car's battery is disconnected for any reason, the preset memory will be erased and must be reprogrammed after reconnection of the battery.

In case of trouble

When the unit does not operate properly, contact your dealer or the nearest authorized PIONEER Service Station. Never remove the top case of the unit to attempt check or repairs.

Changing the Tuning Steps

Parts Identification

Fig. 1

[4] ① Changing the FM tuning step button
[4] ② Changing the AM tuning step button

Changing the AM Tuning Steps

The tuning steps of the AM band for this unit can be switched between 9 kHz and 10 kHz per step. The tuning step should be switched from 9 kHz (which is preset at the factory) to 10 kHz when this unit is used in North America, Central America, or South America.

- 1.Turn the ignition switch off.
- 2.While pressing button ② in Bank [4], turn the ignition switch on. It should be noted that changing the tuning steps also deletes frequencies stored in the tuning memories.

Specifications		Initial setting	New setting
AM	Tuning steps	9 kHz steps	10 kHz steps
	Frequency range	531 — 1,602 kHz	530 — 1,710 kHz

Changing the FM Tuning Steps

The seek tuning steps of the FM band for this unit can be switched between 100 kHz and 50 kHz per step. (Initial setting 100 kHz)

Change it as required.

- 1.Turn the ignition switch off.
- 2.While pressing button ① in Bank [4], turn the ignition switch on.

- If seek tuning is performed in 50 kHz steps, a frequency before a broadcasting station frequency may be received. Tune in the station by performing manual tuning or seek tuning again.

Connecting the Units

Note:

- This unit is for vehicles with a 12-volt battery and negative grounding. Before installing it in a recreational vehicle, truck, or bus, check the battery voltage.
- To avoid shorts in the electrical system, be sure to disconnect the battery \ominus cable before beginning installation.
- Refer to the owner's manual for details on connecting the various cords of the power amp and other units, then make connections correctly.
- Secure the wiring with cable clamps or adhesive tape. To protect the wiring, wrap adhesive tape around them where they lie against metal parts.
- Route and secure all wiring so it cannot touch any moving parts, such as the gear shift, handbrake, and seat rails. Do not route wiring in places that get hot, such as near the heater outlet. If the insulation of the wiring melts or gets torn, there is a danger of the wiring short-circuiting to the vehicle body.
- Don't pass the orange lead through a hole into the engine compartment to connect to the battery. This will damage the lead insulation and can cause a very dangerous short.

- Do not shorten any leads. If you do, the protection circuit may fail to work when it should.
- Never feed power to other equipment by cutting the insulation of the power supply lead of the unit and tapping into the lead. The current capacity of the lead will be exceeded, causing over heating.
- When replacing fuses, be sure to use only fuses of the rating prescribed on the fuse holder.
- Since a unique BPTL circuit is employed, never wire so the speaker leads are directly grounded or the left and right speaker \ominus leads are common.
- Speaker connected to this unit must be high-power types possessing minimum rating of 35 W and impedance of 4 to 8 ohms. Connecting speakers with output and/or impedance values other than those noted here can damage the speakers.
- When an external power amp is being used with this system, be sure not to connect the blue lead to the amp's power terminal. Likewise, do not connect the blue lead to the power terminal of the auto-antenna. Such connection could cause excessive current drain and malfunction.
- To prevent incorrect connection, the input side of the IP-BUS connector is blue, and the output side is black. Connect the connectors of the same colors correctly.

- When the unit is mounted in a vehicle whose ignition switch does not have the ACC (accessory) position as shown in Fig. 7, be sure to connect the red lead of the unit to the terminal controlled by the ignition switch ON/OFF position. If you do not, the vehicle battery may go flat when you leave your vehicle for several hours.



Fig. 6



Fig. 7

Connection Diagram

KEH-P7250

1. Antenna jack
2. Rear out
3. Front out
4. White
5. Red
6. Connecting cords with RCA pin plugs (sold separately)
7. Power amp (sold separately)
8. Blue
9. Multi-play CD player etc. (sold separately)
10. IP-BUS Input (blue)
11. Blue
- To system control terminal of the power amp or Auto-antenna relay control terminal (Max. 300 mA 12 V DC).
12. Black (ground)
- To vehicle (metal) body.
13. Red
- To electric terminal controlled by ignition switch (12 V DC) ON/OFF.
14. Orange
- To terminal always supplied with power regardless of ignition switch position
15. Yellow/Black
- Cellular mute
if you use a cellular telephone, connect IC via the Audio Mute lead on the cellular telephone. If not, keep the Audio Mute lead free of any connections.
16. Fuse resistor
17. Fuse holder
18. With a 2 speaker system, connect to the 2 speakers in the front or the rear.
19. Use this for connections when you have the separately available amplifier.
20. Left speaker
21. Right speaker
22. Front
23. Rear
24. Green
25. Gray
26. Green/black
27. Gray/black
28. Green/red
29. Gray/red
30. Black/green
31. Black/gray

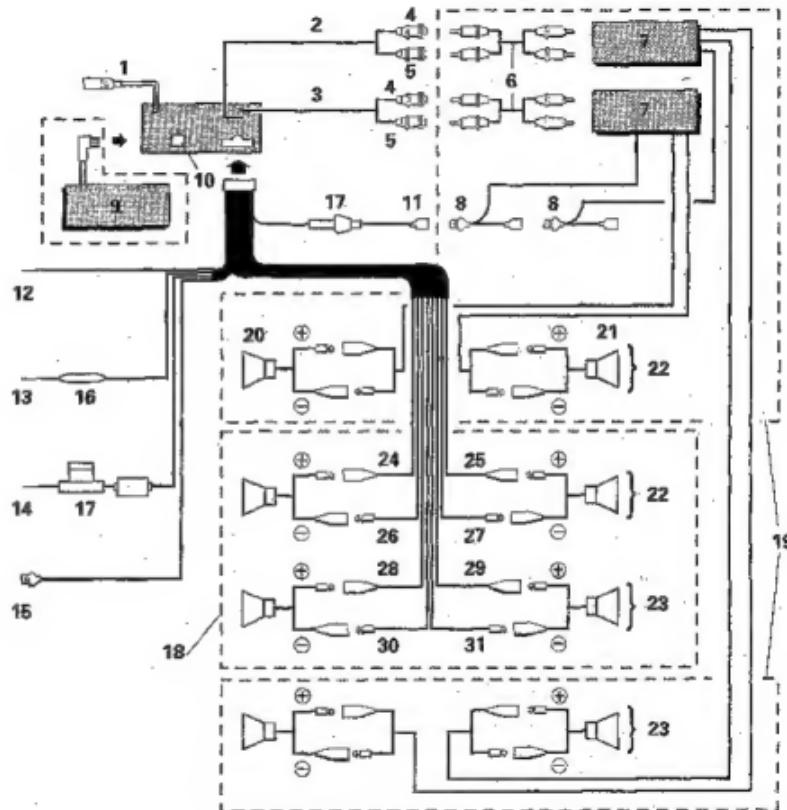


Fig. 8

Connection Diagram

KEH-P5250

1. Antenna jack
2. Rear out
3. _____
4. White
5. Red
6. Connecting cords with RCA pin plugs (sold separately)
7. Power amp (sold separately)
8. Blue
9. Multi-play CD player etc. (sold separately)
10. IP-BUS input (blue)
11. Blue
 - To system control terminal of the power amp or Auto-antenne relay control terminal (Max. 300 mA 12 V DC).
12. Black (ground)
 - To vehicle (metal) body.
13. Red
 - To electric terminal controlled by ignition switch (12 V DC) ON/OFF.
14. Orange
 - To terminal always supplied with power regardless of ignition switch position
15. Yellow/Black
 - Cellular mute
 - If you use a cellular telephone, connect IC via the Audio Mute lead on the cellular telephone. If not, keep the Audio Mute lead free of any connections.
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29. Gray/red
30. Black/green
31. Black/gray

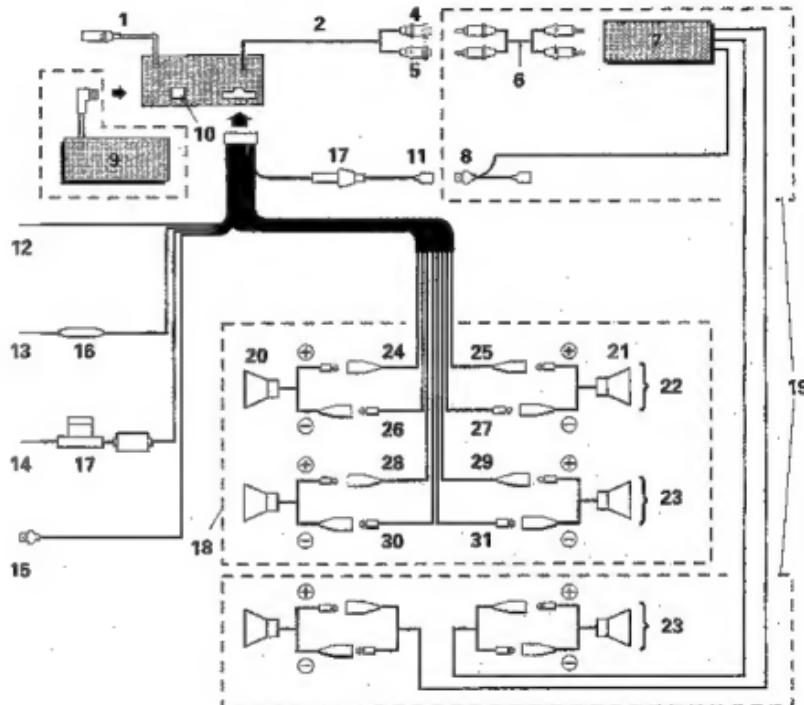


Fig. 9

Installation

Note:

- Before finally installing the unit, connect the wiring temporarily and make sure it is all connected up properly and the unit and the system work properly.
- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.
- If installation angle exceeds 30° from horizontal, the unit might not give its optimum performance. (Fig. 10)

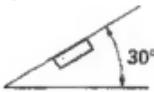


Fig. 10

DIN Front/Rear-mount

This unit can be properly installed either from "front" (conventional DIN Front-mount) or "Rear" (DIN Rear-mount installation, utilizing threaded screw holes at the sides of unit chassis). For details, refer to the following illustrated installation methods.

DIN Front-mount

Installation with the rubber bush (Fig. 11)

1. Dashboard
2. Holder
3. Rubber bush
4. Screw

After inserting the holder into the dashboard, then select the appropriate tabs according to the thickness of the dashboard material and bend them.

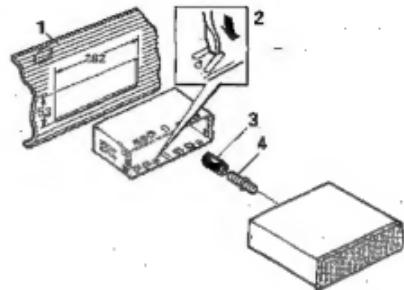


Fig. 11

Removing the unit (Fig. 12) (Fig. 13).

5. Frame
6. Insert the release pin into the hole in the bottom of the frame and pull out to remove the frame.
(When re-attaching the frame, point the side with a groove downwards and attach it.)
7. Lever
Insert the supplied extraction keys into the unit, as shown in the figure, until they click into place. Keeping the keys pressed against the sides of the unit, pull the unit out.

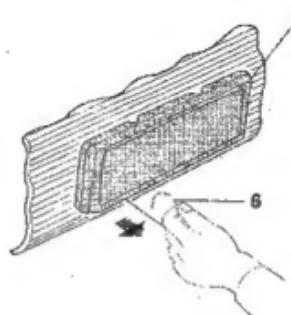


Fig. 12

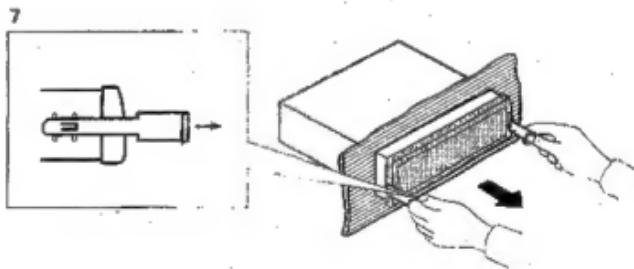


Fig. 13

DIN Rear-mount

Installation using the screw holes on the sides of the unit

1. Remove the frame. (Fig. 14)

8. Frame
9. Insert the release pin into the hole in the bottom of the frame and pull out to remove the frame.
(When re-attaching the frame, point the side with a groove downwards and attach it.)

2. Fastening the unit to the factory radio mounting bracket (Fig. 15) (Fig. 16)

10. Select a position where the screw holes of the bracket and the screw holes of the head unit become aligned (are fitted), and tighten the screws at 2 places on each side. Use either truss screws (5 x 8 mm) or flush surface screws (5 x 9 mm), depending on the shape of the screw holes in the bracket.
11. Screw
12. Factory radio mounting bracket
13. Dashboard or Console

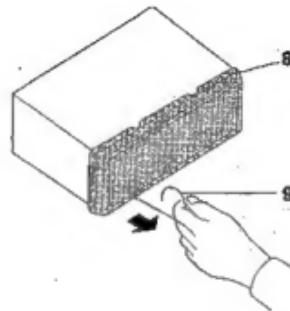


Fig. 14

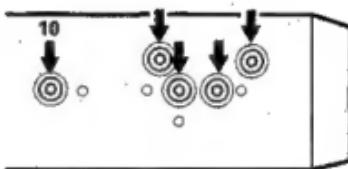


Fig. 15

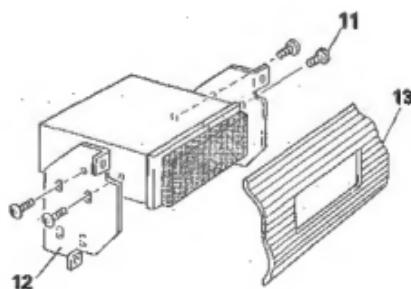


Fig. 16

Installing the Remote Controller Unit (Fig. 17)

- KEH-P5250 does not have a remote controller.
- Affix a strip of Velcro tape to the back of the remote control unit. Remove the oil paper on the back and affix into place.
- Thoroughly wipe off the surface before affixing the Velcro tape.
- Our [AD-R66] Main Controller Stand Unit for mounting the remote control in a stationary position is sold separately. Consult with your dealer for more details.

14. Velcro tape (Rough surface)
15. Attach Velcro tape to the back of the remote control unit.
16. Velcro tape (Soft surface)
17. Remove the oilpaper from the back and attach.

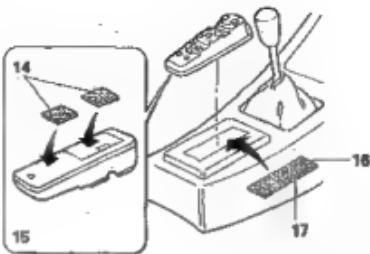


Fig. 17

Using the Removable Front Panel

Parts Identification

Fig. 1

- [4] ② Buzzer ON/OFF
- [9] Detach button

The front panel of this unit can be removed as a theft deterrent.

Also, to prevent forgetting to remove the front panel, 5 seconds after the ignition is turned off, if the front panel is still attached, a buzzer will sound for a few seconds.

If you wish to cancel the sound of the buzzer, please do the following. Keep button ② in Bank [4] depressed and turn the vehicle's ignition key from OFF to ON. By repeating this procedure, the sound of the buzzer will be restored.

Detaching the Front Panel

1. Press button [9], and the right-hand side of the panel will eject.
2. To remove the front panel, pull its right hand side toward you. (Fig. 18)

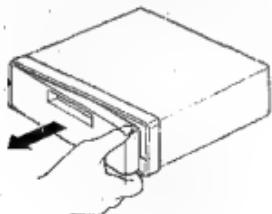


Fig. 18

- Take care not to put pressure on the display or drop the front panel.
- 3. Enclose for safekeeping the front panel that is removed in the supplied protective case. (Fig. 19)

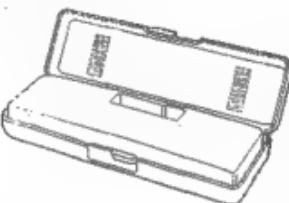


Fig. 19

- Install the front panel holding it parallel to the head unit. Installing the panel tilted, as shown in the illustrations below, may cause the hook on the front panel to destroy the head unit's electrodes. (Fig. 22) (Fig. 23) (Fig. 24)



Fig. 22



Fig. 23

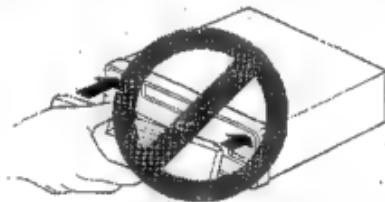


Fig. 24

Replacing the Front Panel

Push the front panel into the main body. (Fig. 20) (Fig. 21)

- When replacing the front panel, do not put pressure on the display or control buttons.



Fig. 20

Fig. 21

- Do not install the front panel while holding down button [9] in Fig. 1. Doing so may destroy the button and the head unit.
- Note that if the front panel is not attached correctly, pushing button [9] may not release the panel, and the other control buttons may not function.

Precautions

- Do not touch the contacts on the front panel or on the unit body, since this may result in poor electrical contact. If dirt or other foreign substances get on the contacts, wipe them with a clean, dry cloth. (Fig. 25) (Fig. 26)

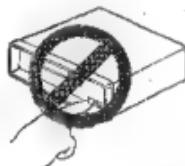


Fig. 25



Fig. 26

Precautions When Handling the Front Panel

- Do not leave the front panel in any area exposed to high temperatures or direct sunlight.
- Do not drop the front panel or otherwise subject it to strong impact.
- Do not allow such volatile agents as benzine, thinner, or insecticides to come into contact with the surface of the front panel.
- Never try to disassemble the front panel.

Using the Clear Button

Once all wiring is complete, press clear button with a thin, pointed object. Though not a normal occurrence, the microprocessor which controls the operation of this unit can be affected by electrostatic noise. This generally is indicated by such symptoms as no power being supplied when you switch the unit on, failure of buttons and controls, or an abnormal display. Should this happen, press clear button with a thin, pointed object to reset the microprocessor.

- The clear button can be located on the unit after you have removed the front panel. (Fig. 27)

Refer to the previous page to find out how to remove the front panel.

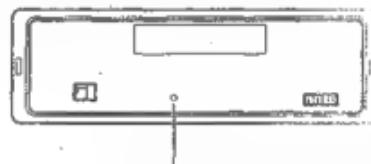


Fig. 27

Adjusting Volume and Tone

Parts Identification

Fig. 1

- [1] Volume/Audio adjustment
- [3] Cassette door
- [5] Eject
- [7] Loudness ON/OFF
- [10] Display
- [11] Source selector
- [14] \odot AUX ON/OFF
- [16] Shift/Source level adjuster

Switching Power On

Radio

Press button [11] to switch the tuner power on. Press button [11] again to switch the power off.

Tape

Insert the cassette tape through the cassette door [3]; and the power will be automatically turned on to start the tape being played back. To eject the tape, press button [5].

Changing the Source

When the cassette tape is inserted, the source changes at each press of the button [11]: Tape \rightarrow Radio \rightarrow OFF.

When an optional multi-play CD player (CDX-P1210, CDX-P610) is connected to your unit, the source changes as follows: Tape \rightarrow Radio \rightarrow Multi-play CD player \rightarrow OFF.

If another audio component is connected to the IP BUS terminal with an optional conversion cord, set the AUX to ON by doing as follows.

Hold down button ⑦ in Bank [14] and set the ignition switch from OFF to ON.

In this case, the source changes as follows:
Tape → Radio → (Multi-play CD player) →
AUX → OFF

Adjusting Audio

Press button [1] to adjust the volume. Each press of button [15] changes the display and the function of button [1] as follows:
Volume → Fader (Balance) → Bass (Treble) → F. I. E. mode.

- If no operations are performed within 8 seconds, adjustment modes are canceled. Make adjustments within 8 seconds.
- If the (◀) or (▶) side of button [2] is pressed when "FAD" is shown on the display, it changes to "BAL", and the balance can be adjusted. To switch from Balance to Fader, press the (+) or (-) side of button [1], and the display and button [1] function becomes Fader.
- When "BAS" is indicated on the display, press the (▶) side of button [2] to switch to "TRE". When "TRE" is displayed, press the (◀) side of button [2] to switch to "BAS".
- When you're adjusting fader, balance, bass or treble settings, the indicator will stop at the center setting.

Adjusting Volume

Pressing the (+) side of button [1] increases the volume, while the (-) side decreases it. (Display shows "VOL 00" ~ "VOL 30".)

When driving your vehicle, be sure to keep the volume of the unit set low enough to allow you to hear sounds coming from outside.

Adjusting the Fader

When you press the (+) side of button [1], the front speaker volume increases gradually while the rear speaker volume decreases. When you press the (-) side of button [1], the rear speaker volume increases gradually while the front speaker volume decreases. (Display shows "FAD F15" ~ "FAD R15".)

- Please set "FAD 0" when using 2 speaker system.

Adjusting Balance

Pressing the (◀) side of button [2] shifts the balance to the left speaker, while the (▶) side shifts it to the right speaker. (Display shows "BAL L9" ~ "BAL R9".)

Adjusting Bass

Pressing the (+) side of button [1] increases bass, while the (-) side decreases bass. (Display shows "BAS -8" ~ "BAS +4".)

Adjusting Treble

Pressing the (+) side of button [1] increases treble, while the (-) side decreases treble. (Display shows "TRE -6" ~ "TRE +6".)

Switching the F. I. E. function

Pressing the (▶) side of button [2] turns the F. I. E. (Front Image Enhancer) function on. Pressing the (◀) side of button [2] turns it off. (refer to following section.)

Using the F. I. E. function

The F. I. E. (Front Image Enhancer) function cuts middle and high range frequency output from the rear speakers so that only low-range frequencies are output, for a simple way to enhance front imaging.

1. Press button [15] to switch to the F. I. E. mode (See "Adjusting Audio").
2. Press the (▶) side of button [2] to switch the F. I. E. mode ON.
3. Switch to the Fader mode, and balance front volume and rear bass volume (See "Adjusting the Fader").
4. Adjust volume and tone (refer to previous section.)

Note:

- If you turn off the F. I. E. function, the rear speakers will output all sounds in addition to the bass sounds. This will cause a sudden increase in volume. Therefore, be sure to reduce the volume before turning off the F. I. E. function.

Using the Loudness Control

Pressing button [7] turns the loudness function on, and "LOUD" [30] appears on the display. Pressing button [7] turns it off. This loudness function supplements the insufficiency of low- and high-frequency ranges when the volume is low.

Using Source Level Adjuster

(KEH-P7250)

You may wish to adjust volume when you have changed the source to radio, tape, or CD or AUX or when you have changed the radio band from FM to AM. You can do so on the basis of the FM volume as follows:

1. Use the button [11] to change the source. (In case of radio, change the band to AM.)
2. Hold down the button [15] for about 2 seconds, and the display will show you the volume of the source. (Display shows "V-4" ~ "V+4".)
3. Pressing the (+) side of button [1] raises the volume and pressing the (-) side lowers it. About 8 seconds after completion of the adjustment, the display returns to what it was showing before the adjustment.
- No adjustment can be made when an FM station is tuned in.

Regarding the Cellular Telephone

Muting

When a call is received or placed with a cellular telephone, the cellular telephone muting will turn ON. When the phone is hung up, the muting will be canceled.

- The volume is reduced to a low level.
- "CALL" will be displayed.
- The audio operation can not be done except volume control.
- CD playback will be paused.

Using the Radio

Parts Identification

Fig. 1.

- [2] Tuning
- [4] Preset
- [10] Display
- [11] Source selector
- [12] Band
- [13] Function ON/OFF
- [14] Preset (FM1)
- [14] ② Local Station
- [14] ② Best Stations Memory (BSM)/Preset scan
- [14] ② FM stereo, mono/Seek, Manual

Fig. 3

- [26] FM stereo
- [27] Preset number
- [28] FM mono
- [29] Local Station
- [31] Function Indicator
- [32] Frequency
- [33] Band
- [34] Manual

Listening to the Radio

1. Press button [11] to switch the radio power on.

2. Press button [12] to select a band.

F1 → F2 → AM
(FM1) (FM2) (AM)

3. Use seek tuning to tune in a frequency. Ensure that "MANU" [34] is not indicated on the display. (When display indications are lit, press button ② in Bank [14] for 2 seconds or more to switch OFF.) Press either the (◀) side or the (▶) side of button [2].

When the (▶) side is pressed, the tuner will automatically receive high frequencies.

When the (◀) side is pressed, it will automatically receive low frequencies.

4. Adjust volume and tone (see page 14).

5. Assign the tuned frequency to one of the buttons in Bank [4] (the buttons in Bank [14] are also used in FM1) (Preset memory).

Press and hold down one of the buttons in Bank [4] (FM1: [4], [14]) for at least 2 seconds. The frequency is assigned to the selected button when the preset number [27] stops flashing on the display. Up to 18 FM stations (12 for FM1 and 6 for FM2), and 6 AM stations can be assigned to the preset memory buttons in Bank [4] (FM1: [4], [14]).

6. Once a frequency is assigned to a button in Bank [4] (FM1: [4], [14]), you just need to press that button to tune it in.

This also causes the number of the button pressed to appear at position [27] on the display.

BSM (Best Stations Memory)

This function automatically locates stronger stations and automatically assigns their frequencies to the buttons in Bank [4] (FM1: [4], [14]), from strongest to weakest. It comes in handy when trying to find local stations while driving.

- 1.Press button [12] and select a band.
- 2.Holding down button [6] for about 2 seconds will start BSM search. At this time, "BSM" will flash on the display.
- 3.The frequency display will return once BSM search is complete, and frequencies are assigned to buttons ① through ⑩ (FM1: ① through ⑩) in Bank [4] (FM1: [4], [14]).
- At the end of the BSM search, the displayed frequency is that assigned to button ① in Bank [4].
- You can cancel BSM search by pressing button [6] again.
- If there are fewer than 6 (FM1: 12) strong stations in the area, some of the buttons in Bank [4] (FM1: [4], [14]) will not be assigned frequencies, so they will retain any frequencies assigned to them previously.
- BSM search may take as long as 30 seconds in areas where there are few strong stations.

Function Mode

The buttons in Bank [14] can be used as the function buttons. Since 12 stations can be preset for FM1, the function is turned on or off with button [13]. Since only 11 stations can be preset for FM2 and AM, the function is automatically turned on. When the function is turned on, subsequent operations can be performed.

Manual Tuning

Use manual tuning when stations are too weak to be picked up by seek tuning.

- 1.Turn on "MANU" [34] by holding down button ② in Bank [14] for 2 seconds or more.
- 2.Each press of the (▶) side of button [2] increases the frequency in 50 kHz steps in the FM band, 9 kHz in the AM band. Pressing the (◀) side of button [2] decreases the frequency. Holding down either side of button [2] changes the frequency at high speed.
- AM frequencies are tuned in 10 kHz steps after the tuning steps are changed.

Adjusting Seek Sensitivity

The seek tuning function of this tuner lets you select between a local setting for reception of strong stations only, and a DX (distant) setting for reception of weaker stations. The local setting also has 4 seek tuning sensitivity levels for FM and 2 levels for AM to match local conditions.

Changing the Local Seek Sensitivity

- 1.Use button [12] to select a band.
- 2.Hold down button ② in Bank [14] for more than 2 seconds, and the display will show you the current local seek sensitivity for about 5 seconds.
- 3.While the local seek sensitivity remains on the display, press the (▶) side of button [2] to increase the sensitivity level, and the (◀) side to decrease the level as shown below.

FM : LOC-1 = LOC-2 = LOC-3 = LOC-4
AM: LOC-1 = LOC-2

The LOC-4 setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.

- The display of local seek sensitivity returns to the frequency when about 5 seconds have elapsed after the change of sensitivity.

Switching between Local and DX

Press button ② in Bank [14] to switch between Local and DX (distant) seek tuning. When "LOC" [29] is shown on the display, seek tuning is performed with the local seek sensitivity. Otherwise, seek tuning is performed with the DX seek sensitivity.

Switching between FM Stereo and Mono

Generally, it is best to allow the ARC (Automatic Reception Control) function to automatically set the optimum listening conditions. When stereo broadcasting is received, "□" [26] will appear on the display. When there is a large amount of noise, you can press button ② in Bank [14] for clearer mono reception ("MONO" [28] will appear on the display).

Preset Scan Tuning

This function lets you automatically monitor the stations assigned to the preset buttons.

1. Press button ① in Bank [14]. The frequency will appear on the display [38] and the preset number [27] will blink. Each station assigned to the buttons in Bank [4] (FM1: [4], [14]) will be automatically tuned in for about 8 seconds.

2. When you hear a station that you like, press button ① in Bank [14] again to cancel preset scan tuning and remain at that station.

- Stations stored in memory under the buttons [4], [14] but whose signal is weak will not be recalled.

Using the Tape Deck

Parts Identification

Fig. 1

- [2] Fast Forward, Rewind/Music search
- [3] Cassette door
- [5] Eject
- [10] Display
- [12] Direction change/Release
- [14] ⑦ Flex (1/f)
- [14] ⑧ Dolby B NR
- [14] ⑨ Blank Skip (B. SKIP)
- [14] ⑩ Repeat (RPT)

Fig. 4

- [35] Flex (1/f)
- [36] Blank Skip (B. SKIP)
- [37] Metal
- [38] Tape running direction Indicator
- [39] Play indicator
- [40] Dolby NR

About Cassette Tapes

- Do not use tapes longer than C-90-type (90 min.) cassettes. Longer tapes can interfere with tape transport.
- A loose or warped label on a cassette tape may interfere with the eject mechanism of the unit or cause the cassette to become jammed in the unit. Avoid using such tapes or remove such labels from the cassette before attempting use.

- Storing cassettes in areas directly exposed to sunlight or high temperatures can distort them and subsequently interfere with tape transport. (Fig. 28)



Fig. 28

- Store unused tapes in a tape case where there is no danger of them becoming loose or being exposed to dust.

Cleaning the Head

If the heads become dirty, the sound quality will deteriorate and there will be sound dropouts and other imperfections in performance. In this case, the head must be cleaned.

- When using a cleaning tape, play it once on one side for normal cleaning. Excessive use of the cleaning tape will increase head wear. Be sure to read the cleaning tape instructions before use.

Listening to a Tape

1. By inserting the cassette tape into slot [3], power will be turned on and the tape will begin to play.

At this time, the tape running direction indicator [38] will light up to your satisfaction.

2. Adjust volume and tone (see page 14).
3. To eject the cassette tape, press the button [5].

Changing Program

When button [12] is pressed, the tape switches from side A to side B (or from side B to side A). (If the button is pressed during fast forwarding or rewinding, the current side is played.)

Dolby B NR

(KEH-P7250)

To hear a tape recorded using a Dolby NR system, press button ② in Bank [14]. ("□" [40] appears.)

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
- "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Using Fast Forward and Rewind

1. To fast forward tape, press the (►) side of button [2].

(Display shows "FF".)

To rewind tape, press the (◀) side.

(Display shows "REW".)

2. To release the fast forward or rewind function, press button [12].

Using Music Search

(KEH-P7250)

1. To repeat the current selection (A), press the (◀) side of button [2] two consecutive times.

(Display shows "R-MS".)

To hear the following piece of music (B) rather than continue the current selection, press the (►) side of button [2] two consecutive times.

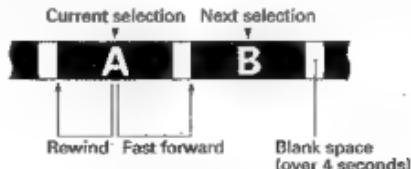
(Display shows "F-MS".)

Pressing button [2] three consecutive times makes the normal sequence of playing resume.

2. To release the music search function, press button [12].

The following errors will cause the music search function to operate improperly, even though the unit is not malfunctioning.

- Unrecorded blank portion between selection is less than 4 seconds → the blank portion cannot be detected by the unit.
- Pauses in recorded conversations are longer than 4 seconds → the unit reads these as blanks between selections.
- Portions are recorded at very low volume for more than 4 seconds → the unit reads these as blanks between selections.



Auto Tape Selector

(KEH-P7250)

When a cassette tape is inserted, the automatic tape selector determines the tape type, and switches between 70 µs and 120 µs equalization. When it is a metal or chrome tape, "MTL" [37] comes on. When it is a normal tape, nothing comes on.

Using the blank skip function

(KEH-P7250)

Automatically carries out fast forward to the start of the next selection when there is a blank area of 12 seconds or more between selections.

1. Press button ② in Bank [14] until "B, SKIP" [38] appears.
2. To release the blank skip function, press button ② in Bank [14] again.

Using the Music Repeat Function

(KEH-P7250)

Lets you listen to the same selection repeatedly.

1. Press button ② in Bank [14] when you are listening to the track to be repeated until "RPT" appears on display [39].
2. To cancel the music repeat function, press button ② in Bank [14] again or press button [12].

Fig. 29

FLEX (Frequency Level Expander) function

(KEH-P7250)

If the high-frequency performance is poor when playing back an old or poorly recorded cassette, you can improve it by pressing button ⑦ in Bank [14]. ("1/f" [35] appears.)

• This function may have little effect on a cassette offering good sound quality, for instance, one recorded from compact disc.

Using the Remote Control

(KEH-P7250)

Loading Batteries

1. Remove the battery compartment cover from the remote controller unit.
2. Load 2 batteries, whose type is UM-4, AAA or IEC R03 1.5V, as applicable, that come with the unit into the remote controller unit, ensuring that their polarity (+/-) is correct.
3. Replace the battery compartment cover.

UM-4, AAA, IEC R03 1.5V

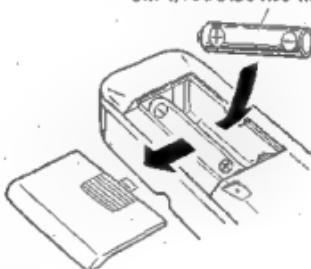


Fig. 30

Precautions When Loading Batteries

Note the following precautions when loading batteries into the remote controller unit to avoid damage due to battery fluid leakage.

- Always check carefully that you are loading batteries with the (+) and (-) poles facing in the proper directions.
- Never mix old and new batteries. Always replace batteries with two new ones.

• Some batteries may appear to be identical but have different voltage ratings. Never mix battery types.

• Some batteries can be recharged and some cannot. Be sure to carefully read the label for the batteries you use.

• To avoid damage to the remote controller caused by battery leakage, remove the batteries from the remote controller if you do not plan to use it for more than one month. If you find that fluid has leaked, thoroughly wipe out the battery compartment and load a set of new batteries.

Precautions

- Keep the remote controller unit in an area not exposed to long periods of direct sunlight.
- Hold the remote in your hand and operate it as you point it at the head unit.
- When you stop suddenly or go around a curve, the remote may fall near your feet and slide under the brake pedal, causing an extremely dangerous situation. Therefore, when not using the remote, always secure it, using the supplied Velcro tape.
- Since the transmitter employs an infrared system, it may not operate properly while car stereo unit is exposed to direct sunlight. In such a case, block the sunlight from the sensor and then perform the desired operation.
- If the remote controller fails to operate unless it is brought close to the unit, it may indicate that battery power is low. Replace the batteries in the remote controller.

Parts Identification

Fig. 2

[16] Learn Button

Takes on the same function as the button recorded with the learn function. Refer to the section "Learning Function" for details.

[18] Shift

Each press of button changes the display and the function of button [1] and [19] as follows: Volume — Fader (Balance) — Bass (Treble) — F. L. E. mode.

Each time you press and hold down this button for 2 seconds or longer, the Source Level Adjuster mode turns ON or OFF.

[21] Volume

Press the (+) side to increase volume and the (-) side to decrease volume.

[22] Tape, Tuner

If this button is pressed to switch the tuner power on. When the cassette tape is inserted, the source changes at each press of this button :

Tape — Radio — OFF

[23] CD, M-CD

Unit goes to CD play. Press again to turn OFF.

* The function only works when this unit is connected to a separately sold Multi-Play CD player (CDX-P1210, CDX-P610).

[25] Attenuator

Press to reduce the volume to 1/10 of its current setting (The "ATT" display blinks.). Pressing again returns the volume to its original level.

- This function is available using the remote controller unit only.

Operating Radio

[17] Band

Band changes.

[19] Preset Channel

Press to tune the frequencies assigned to the preset button memory. Pressing the (▲) side tunes in the next high preset button number, while (▼) tunes in the next lower preset button number. The preset number changes at high speed when you hold either side of this button down.

[20] Seek Tuning

Press either the (◀◀) side or the (▶▶) side. When the (▶▶) side is pressed, the tuner will automatically receive high frequencies. When the (◀◀) side is pressed, it will automatically receive low frequencies.

[24] BSM

Press this button for 2 seconds or more to switch the BSM function ON and OFF.

Operating Tape

[17] Program

Press this button to change the side of tape from A to B or vice versa.

[20] Fast Forward/Rewind

Press the (▶▶) side for fast forward and the (◀◀) to rewind the tape. Press this button twice to perform the music search operation, and a third time to return to normal playback.

Operating the CD Player

- This function only works when this unit is connected to a separately sold multi-play CD player (CDX-P1210, CDX-P610).

[18] Multi-play CD player selector

Multi-play CD player changes.

- This function only works when this unit is connected to 2 or more multi-play CD players.

[19] Disc Number Search

Used to specify the number a disc loaded in the magazine. Press the (▲) side to increase the disc number on the display, and the (▼) side to reduce the disc number.

[20] Track Number Search

Press to search for a selection (track number) on the current disc. Press the (▶▶) side to increase the track number on the display, and the (◀◀) side to reduce the track number. Holding down either side of this button changes the track number at high speed.

Disc Title Input (Entering Titles)

You can enter a title for the disc in the multi-play CD player. This title stored for the disc can be displayed.

Buttons [19] and [20] on the remote controller have the same functions as buttons [1] and [2] on the head unit, respectively. (See the section "Disc Title Input" on page 27.)

Learning Function

Fig.1

[7] Learn changeover button

Fig.2

[18] Learn Button

Records one button from the head unit on the remote control's learn button. This can be convenient when a button which is used often is recorded.

1. Holding down button [7] for at least 2 seconds displays "LEARN" for about 3 seconds.
2. Press the button on the head unit that you want to use on the remote control.
3. Press the learn button [18] on the remote controller unit. The head unit button recorded can now be used from the remote control.
- Store the button memory while "LEARN" is displayed. Once that "LEARN" display goes out, nothing can be stored into the button memory.

Using the Clock Display

Parts Identification

Fig.1

- [4] ① Hour adjustment
- [4] ② Minute adjustment
- [4] ③ Clock reset
- [8] Clock

Displaying the Time

The clock is displayed when button [8] is pressed. Press button [8] again to switch off the clock display.

- The clock display can be used only when the head unit is in operation.
- When the clock is being displayed, pressing any other button will end the clock display. The clock will be displayed again about 25 seconds after the last button is pressed.

Adjusting the Time

Adjusting Hour

While holding down button [8], press button ① in Bank [4] to adjust the hour setting. Each time button ① in Bank [4] is pressed, the hour advances by one hour.

Holding down button ① in Bank [4] advances the hour at high speed.

Adjusting the Minutes

While holding down button [8], press button ② in Bank [4] to adjust the minute setting. Each time button ② in Bank [4] is pressed, the minute advances by one minute.

Holding down button ② in Bank [4] advances the minute at high speed.

- After the minute is adjusted, the clock will start from 0 second when button [8] is released.

Adjust the clock with the "Immediate clock adjustment"

Hold down button [8] and press button ③ in Bank [4]. The time becomes "00:00".

- If the "minute" indication is 00 to 29, it is discarded, and the clock starts. (Example: If the time is "10:18", it becomes: "10:00").
- If the "minute" indication is 30 to 59, it is rounded up, and the clock starts. (Example: If the time is "10:36", it becomes "11:00").

Playing Compact Discs

Precautions When Using the Multi-Play CD Control

- If the IP-BUS extension adapter is used, up to 4 multi play CD players can be connected. When 2 or more CD players are connected, their priorities must be specified for the Multi-play CD players. See the Multi-play CD players instructions and set the address switches correctly.
- Use this unit with optional multi-play CD players (CDX-P1210, CDX-P610).
- If 2 or more multi-play CD players are connected to the unit, you can select the CD player to be played.

Each press of button [12] switches between the CD players and magazine number [41] on the display.

Parts Identification

Fig. 1

- [2] Track number search/Fast Forward, Reverse
- [4] Disc number search
- [10] Display
- [11] Source selector
- [12] Multi-play CD player select
- [13] Function ON/OFF
- [14] Disc number search
- [14] ⑦ Display selector/Edit
- [14] ⑧ Pause/Random play
- [14] ⑨ Title list/program clear
- [14] ⑩ ITS (Instant Track Selection)/ITS Play
- [14] ⑪ Scan/Compression
- [14] ⑫ Play mode switching/Manual

Fig. 5

- [31] Function indicator
- [41] Magazine number
- [42] Disc number
- [43] COMP
- [44] Magazine repeat mode
- [45] Disc repeat mode
- [46] DBE
- [47] Elapsed play time display
- [48] Track number
- [49] Manual

Using the Multi-Play CD Player

- 1. Press button [11] to change the display to the multi-play CD player mode and to begin disc play.

Each press of button [11] changes the mode as follows:

Tape → Radio → Multi-play CD player → OFF

- 2. Use the Disc Number Search function to select a disc.

Select the desired disc by pressing one of the buttons in Bank [4], [14]. The number of the disc selected appears at position [42] on the display.

- If the number at position [42] on the display does not change when you press a button in Bank [4], [14], it means that there is no disc loaded in that tray.

- 3. Adjust volume and tone (see page 14).

- 4. To stop disc play, press button [11].

At another press, the normal play resumes from about where it stopped.

Note:

- When you turn the power on or change the disc to be played, the multi-play CD player may perform a preparatory operation (verifying there is a disc, reading disc information, etc.). "READY" is displayed during this time.
- When the multi-play CD player is not working correctly, an error message appears on the display (Ex: "ERROR80"). Identify the error from the multi-play CD player owner's manual.

- After you press a button in Bank [4], [14], it may take some time before play begins due to the time necessary to load and set the disc in the mechanism.
- If the 12-disc magazine CD player CDX-P1210 is combined with this unit, button [14] acts as the disc number search button. Press button [13] to switch between the function mode and disc number search button.
When using for Disc Number Search, turn Function off.

Track Number Search

The desired track on the disc currently being played can be selected by track (or song) number.

Make sure "MANU" [49] is not displayed on the display. If it is, hold down button ⑩ in Bank [14] more than 2 seconds.

Press the (▶) side of button [2] to increase the number at Position [54], or the (◀) side to decrease the number. Holding either side of button [2] down changes the track number at high speed.

Function Mode

If the 12-disc magazine CD player CDX-P1210 is combined with this unit, button [14] acts as the disc number search button. Press button [13] to switch between the function mode and disc number search button.

When the function is turned on, subsequent operations can be performed.

Using Fast Forward and Reverse

1. Hold down button ⑩ in Bank [14] more than 2 seconds. "MANU" [49] appears on the display.

2. Press the (▶) side of button [2] for fast forward, and the (◀) side for reverse.

• Sound is output during fast forward and reverse operations.

Repeat

You can select one of the play modes (repeat modes) listed below.

Play mode (repeat mode)	Operation
One-Track Repeat	Play the current track repeatedly. <ul style="list-style-type: none">When you perform track number search or fast forward or rewind, the mode changes to disc repeat mode.Switching the multi-CD player being played or the disc switches to magazine repeat mode.
Disc Repeat	Play the same disc repeatedly. <ul style="list-style-type: none">Switching the multi-CD player being played or the disc switching to magazine repeat mode.
Magazine Repeat	Play all discs loaded in the magazine in the multi-play CD player repeatedly. All discs in the magazine are played repeatedly from the first disc.
ALL Repeat	The mode changes to this mode when 2 or more multi-play CD players are connected. Multi-play CD players 1 to 4 are played.

Each press of button ② in Bank [14] causes the mode to change as follows:

One-Track Repeat ("RPT" appears on the display [47]) → Disc Repeat ("DISC" [45] appears) → Magazine Repeat ("M-CD" [44] appears) → ALL Repeat

Random Play

The microcomputer of the multi-play CD player can play tracks on discs in a random order. Random play is performed according to the current play mode (repeat mode) as follows:

Play mode (repeat mode)	Tracks to be played at random
One-Track Repeat	All tracks on the disc being played. • The play mode changes to disc repeat mode.
Disc Repeat	All tracks on the disc being played.
Magazine Repeat	All tracks on the discs in the magazine being played.
ALL Repeat*	All tracks on all discs in multi-play CD players 1 to 4.

* When 2 or more multi-play CD players are connected.

Using Scan

The first parts of each track are played in succession for about 10 seconds. This function is useful to search for the track or disc you want to listen to. Scan is performed according to the current play mode (repeat mode) as follows:

Play mode (repeat mode)	Tracks to be scanned and played
One-Track Repeat	All tracks on the disc being played. • The play mode changes to disc repeat mode.
Disc Repeat	All tracks on the disc being played.
Magazine Repeat	The first tracks of all the discs in the magazine being played.
ALL Repeat*	First tracks of all discs loaded in multi-play CD players 1 to 4.

* When 2 or more multi-play CD players are connected.

1. Select the desired random play mode (repeat mode). (See page 24.)

2. Hold down button ⑧ in Bank [14] for more than 2 seconds. ("RDM" appears on the display [47].) To cancel random play, hold down button ⑧ in Bank [14] for more than 2 seconds again. ("RDM" disappears.)

• Since selections are played in random order, the same selection may be played twice in succession.

1. Select the desired random play mode (repeat mode). (See page 24.)

2. Press button ⑩ in Bank [14]. ("SCAN" appears on the display [47].) The first parts of all tracks are played in succession for about 10 seconds.

3. When you hear the track you want, press button ⑩ in Bank [14] again to cancel Scan. ("SCAN" disappears.) The track (disc) being played then plays to the end.

• The previous function automatically resumes when a piece of music with which Scan began returns.

ITS (Instant Track Selection)

This function lets you program and play the tracks you want. You can listen to just your favorite tracks.

- The ADPS function* of the multi-play CD player lets you program up to 100 discs. (Up to 100 discs can be programmed including disc title inputs (see page 27).)
- Up to 99 tracks can be programmed for a single disc.
- When the number of discs exceeds 100, discs not being played (information not being renewed) in memory is overwritten by the newest.
- Tracks are programmed for each disc.
- Programmed tracks are not erased after the disc is changed.

Programming

1. Play the track you want to program.
2. Press button \textcircled{B} in Bank [14] to program the track.
("ITS" appears on the display [47] for 2 seconds.)
- Program tracks while ITS play is not in progress. It is possible during scan play or random play.

ITS Play

Tracks stored only in memory are played in order. Tracks are played according to ITS play mode (repeat mode) as follows:

Play mode (repeat mode)	Tracks to be played by ITS
One-Track Repeat	Programmed tracks on the disc being played. <ul style="list-style-type: none">• The play mode changes to disc repeat mode.
Disc Repeat	Programmed tracks on the disc being played.
Magazine Repeat	Programmed track on the discs in the magazine being played. <ul style="list-style-type: none">• If the disc being played contains no programmed tracks, the next disc containing programmed tracks is played.
ALL Repeat*	Programmed tracks on all discs in all magazines in multi-play CD players 1 to 4. <ul style="list-style-type: none">• If the disc (multi-play CD) being played contains no programmed tracks, the next disc (multi-play CD) containing programmed tracks is played.

* When 2 or more multi-play CD players are connected.

1. Select the desired ITS play mode (repeat mode). (See page 24.)
2. Hold down button ⑩ in Bank [14] for more than 2 seconds. ("ITS.P" appears on the display [47].) To cancel ITS play, hold down button ⑩ in Bank [14] again. ("ITS.P" disappears.)
- When you play a disc that has no tracks programmed, "EMPTY" will appear on the display [47] for about 2 seconds, indicating that ITS play is not possible.
- You can perform scan play or random play during ITS play. In this case, scan play or random play applies to all the tracks stored in memory. (If the play mode is the magazine repeat mode or all repeat mode, scan play applies to all the tracks of the discs in the magazine stored in memory.)
- During ITS play, multi-play CD players containing discs with programmed tracks are switched, and disc and track number search is performed on programmed tracks.

Erasing the ITS Program

You can erase one or all selections of the program for the disc being played by ITS.

To erase a single selection:

1. Start ITS play. (See page 26.)
2. Play the track you wish to erase by using disc number search or track number search.
3. Hold down button ⑩ in Bank [14] for more than 2 seconds.

To erase the disc program:

1. Start normal play.
2. Play the disc you wish to erase by using disc number search.
3. Hold down button ⑩ in Bank [14] for more than 2 seconds to erase the program. ("CLEAR" appears on the display [47] for about 2 seconds.)

Pausing

1. Press button ⑩ in Bank [14] to pause during disc playback ("PAUSE" appears on display [47]).
2. Press button ⑩ in Bank [14] again to release pause.
 - You can select a track using the track number search during pause. ("PAUSE" is off while a track is being searched.) When the track search ends, the found track is paused at its beginning.

Disc Title Input

You can enter a title for the disc in the multi-play CD player. The title stored for the disc can be displayed.

- The ADPS function* of the multi-play CD player lets you enter titles for up to 100 discs. (Up to 100 discs, including ITS, can be programmed (see page 26).)
- *ADPS: Automatic Disc Program Selection
- A disc title can consist of up to 8 characters for a single disc.
- When the number of discs exceeds 100, discs not being played (information not being renewed) in memory is overwritten by the newest.
- One title is stored for each disc. The title stored for a disc is not erased after the disc is changed.

Entering Titles

1. Select the disc for which you want to enter a title.
2. Hold down button ⑦ in Bank [14] for more than 2 seconds to select title input mode.
3. Press the (◀) or (▶) side of button [2] to select the input position. The input position moves continuously when you hold down either side of the button.

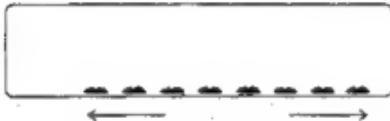


Fig. 31

4. Select characters using the (+) or (-) side of button [1]. When you hold down either side of the button, the character changes continuously. Each press of the (+) side changes the character from "A → B → C..." , while each press of the (-) side changes the character from "C → B → A". To enter a space, press the space sign (_).
5. Enter all characters by repeating steps 3 and 4.

Press button ⑦ in Bank [14] to store them in memory.
The title will appear on the display.

Disc Title List

You can list all discs loaded in the magazine being played. This function is convenient for checking discs in the magazine being played.
Each press of button ⑨ in Bank [14] displays the titles of the discs in magazine being played in ascending order of disc number.

The disc title is displayed for about 8 seconds, then the normal operation display returns.

- *Nothing is displayed for discs having no titles.*
- *Trays with no discs are skipped.*

Select the disc to be played from the disc list display.

1. Press button ⑩ in Bank [14] to display the disc title.
2. When the title of the disc you want to listen to is displayed, press button ⑦ in Bank [14]. That disc is played.

Display Switching

Each press of button ⑦ in Bank [14] switches the display [47] between the elapsed play time and disc title.

When you press button [12] while the disc title is being displayed, the normal operation display will appear for 8 seconds.

CD sound quality adjustment function

If you connect a Multi-play CD player with COMP (Compression) and D.B.E. (Dynamic Bass Emphasis) functions to this unit, you can use these functions with this unit. If you connect a Multi-play CD player that does not feature these functions, even if you try to switch to these functions, "NO COMP" is displayed, indicating that switching is not possible.)

COMP (Compression) function

This function suppresses loud sounds while boosting quiet sounds to reduce the difference between the 2. Use this function if there is distortion when you raise the volume.

When the COMP function is ON, "COMP" [43] lights in the display.

D.B.E. (Dynamic Bass Emphasis) function

When listening in a car, bass sound may be insufficient. This function boosts bass. When the D.B.E. function is ON, "DBE" [46] lights in the display.

COMP and D.B.E. switching

You can switch between 2 COMP and D.B.E. levels.

Level switching of both functions at the same time is not possible.

1. Press button ⑪ in Bank [14] for 2 or more seconds to select the switching mode.
2. Each time you press button ⑪ in Bank [14], the mode changes as follows.
COMP OFF → COMP 1 → COMP 2 → COMP OFF → DBE 1 → DBE 2 → COMP OFF
- With both COMP and D.B.E., the second mode is more effective.

Specifications

General

Power source	14.4 V DC (10.8 — 15.6 V allowable)
Grounding system	Negative type
Max. current consumption	8.5 A
Dimensions	
(DIN) (mounting size)	178 (W) × 50 (H) × 150 (D) mm
(nose)	188 (W) × 58 (H) × 19 (D) mm
(D)	178 (W) × 50 (H) × 155 (D) mm
(nose)	170 (W) × 48 (H) × 14 (D) mm
Weight	1.3 kg

Amplifier

Amplifier Continuous power output is 15 W per channel min. into 4 ohms,

both channels driven 50 to 15,000 Hz with no more than 5% THD. Maximum output power is 25 W at 1/10% THD.

Continuous power output 15 W × 4 (1% dist. at 1 kHz)

Load impedance 4 Ω (4—8 Ω allowable)

Preout output level/output impedance..... 500 mV/1 k Ω

Tone controls (bass) +8—-15 dB (100 Hz)
(treble) +12 dB (10 kHz)

Loudness contour +10 dB (100 Hz), +7 dB (10 kHz)
(Volume: -30 dB)

Tape player (KEH-P7250)

Tape	Compact cassette tape (C-30 — C-90)
Tape speed	4.8 cm/sec.
Fast forward/rewind time	Approx. 100 sec. for C-60
Wow & flutter	0.09 % (WRMS)
Frequency response	Metal: 30 — 19,000 Hz (± 3 dB)
Stereo separation	45 dB
Signal-to-noise ratio	Metal: Dolby B NR IN: 67 dB (IEC-A network) Dolby NR OUT: 61 dB (IEC-A network)

Tape player (KEH-P5250)

Tape	Compact cassette tape (C-30—C-90)
Tape speed	4.8 cm/sec.
Fast forward/rewind time	Approx. 100 sec. for C-60
Wow & flutter	0.09 % (WRMS)
Frequency response	30—16,000 Hz (± 3 dB)
Stereo separation	45 dB
Signal-to-noise ratio	61 dB (IEC-A network)

FM tuner

Frequency range	87.5 — 108 MHz
Usable sensitivity	11 dBf (1.0 μ V/75 Ω , mono, S/N: 30 dB)
50 dB quieting sensitivity	16 dBf (1.7 μ V/75 Ω , mono)
Signal-to-noise ratio	70 dB (IEC-A network)
Distortion	0.3 % (at 85 dBf, 1 kHz, stereo)
Frequency response	30 — 15,000 Hz (± 3 dB)
Stereo separation	40 dB (at 85 dBf, 1 kHz)

AM tuner

Frequency range	531 — 1,602 kHz (9 kHz)
	530 — 1,710 kHz (10 kHz)
Usable sensitivity	18 μ V (25 dB) (S/N: 20 dB)
Selectivity	50 dB (± 9 kHz)
	50 dB (± 10 kHz)

Note:

Specifications and the design are subject to possible modification without notice due to improvements.